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(54) Title: COATINGS

(57) Abstract: Method of Producing Sol-gels and Sol-gel Biosensors. The invention discloses a method of producing a layer of sol-gel on a substrate comprising the steps of: (a) providing a acidified sol suspension; (b) at least partially neutralising the acidified sol suspension to form a neutralised sol suspension; (c) contacting an electrically conductive surface with the neutralised sol suspension; and (d) applying an electrical potential to the electrically conductive surface to cause a layer of sol-gel to form on the surface of the electrically conductive surface. Preferably, the neutralised sol-gel has a biological material, such as an enzyme added. Biosensors obtained by using the method are also provided.

INTERNATIONAL SEARCH REPORT

International Application No
GB 03/04984

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	AVNIR D ET AL: "ENZYMES AND OTHER PROTEINS ENTRAPPED IN SOL-GEL MATERIALS" CHEMISTRY OF MATERIALS, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 6, 1994, pages 1605-1614, XP000938822 ISSN: 0897-4756 page 1608, column 2, paragraph 2 page 1609, column 1, paragraph 1 --- -/--	27, 29, 30

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SHACHAM R ET AL: "ELECTRODEPOSITION OF METHYLATED SOL-GEL FILMS ON CONDUCTING SURFACES" ADVANCED MATERIALS, VCH VERLAGSGESELLSCHAFT, WEINHEIM, DE, vol. 11, no. 5, 22 March 1999 (1999-03-22), pages 384-388, XP000827258 ISSN: 0935-9648 cited in the application the whole document	1-30
A	US 6 303 290 B1 (LIU DEAN-MO ET AL) 16 October 2001 (2001-10-16) cited in the application claim 1	1-30
A	WO 99/10743 A (UNIV CALIFORNIA) 4 March 1999 (1999-03-04) page 44, line 23 -page 45, line 15	1-30

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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WO 9910743	A	04-03-1999	US 6022748 A 08-02-2000
			AU 9211698 A 16-03-1999
			CA 2301561 A1 04-03-1999
			EP 1002234 A1 24-05-2000
			WO 9910743 A1 04-03-1999
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			US 2001026915 A1 04-10-2001